

## ABSTRACT OF THE DISCLOSURE

A method for testing the integrity of filter elements, in which the convective component of the volumetric gas flow rate is determined from the ratio of the volumetric gas flow rates and the ratio of the solubility or diffusion coefficients of two different gases in the wetting liquid of the filter elements or is determined from the ratio of the volumetric gas flow rates and the ratio of the solubility or diffusion coefficients of a test gas in two different wetting liquids.